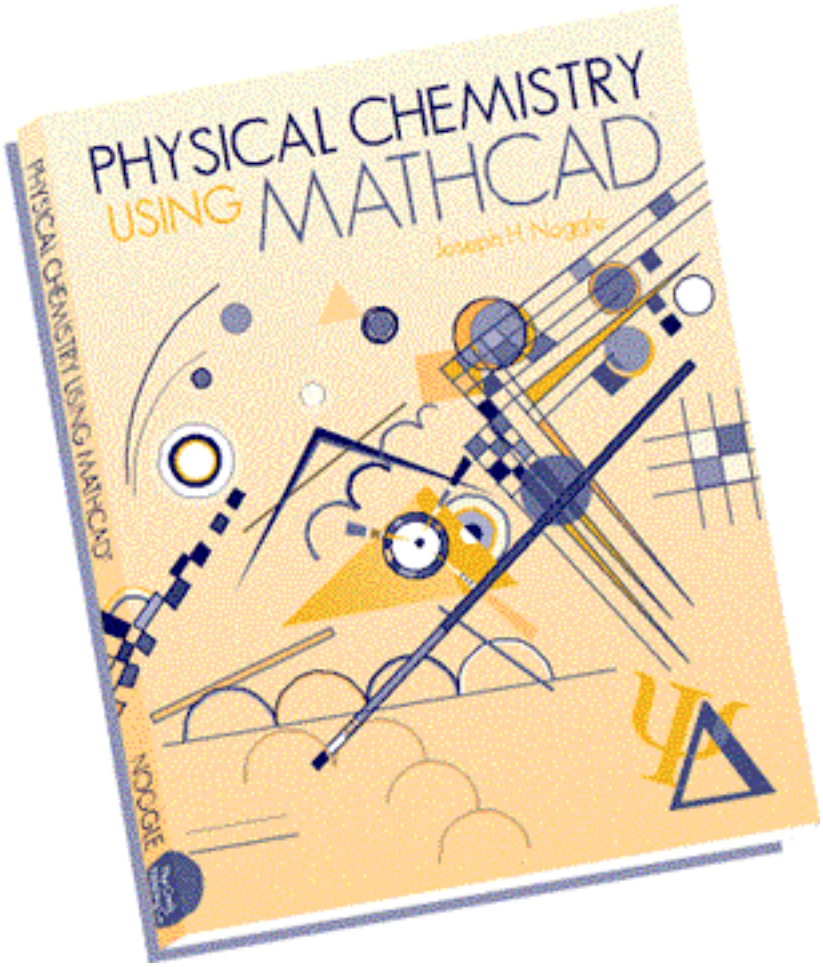
Physical Chemistry Using Mathcad

Platform: Windows
Requires: 4 MB hard disk space; includes the Mathcad Engine
Available for ground shipment

This book does two things: 1) Teaches the aspects of Mathcad that are most useful for solving problems in physical chemistry and related disciplines. 2) Teaches physical chemistry and how to solve physical chemistry problems. It is meant to be an interactive exploration of physical chemistry using Mathcad. Mathcad's advantage over competing programs is its ability to keep track of units, do unit conversions, and its ease of learning and use. While it is primarily intended for students, it will also be useful for graduate scientists and engineers who wish to review the subject or to learn about new methods of doing scientific and engineering calculations using a microcomputer.

Table of Contents Back to Product List



Physical Chemistry Using Mathcad Book Cover

Examples from physical chemistry include problems from thermodynamics, kinetics, transport processes and quantum mechanics.

Physical Chemistry Using Mathcad

TABLE OF CONTENTS (page 1 of 9)

Joseph H. Noggle
Department of Chemistry & Biochemistry
University of Delaware

Table of Contents

INTRODUCTION

CHAPTER 1 PROPERTIES OF GASES

Back to Product List

MathSoft

Click here to order

Physical Chemistry Using Mathcad

TABLE OF CONTENTS (page 2 of 9)

CHAPTER 1 PROPERTIES OF GASES

CHAPTER 2 THE FIRST LAW OF THERMODYNAMICS

Back to Product List

MathSoft

Click here to order

Physical Chemistry Using Mathcad

TABLE OF CONTENTS (page 3 of 9)

Back to Product List

MathSoft

Click here to order

Physical Chemistry Using Mathcad

TABLE OF CONTENTS (page 4 of 9)

CHAPTER 4 PHASE EQUILIBRIUM

CHAPTER 5 STATISTICAL THERMODYNAMICS

Back to Product List

MathSoft

Click here to order

TABLE OF CONTENTS (page 5 of 9)

Back to Product List

MathSoft

Click here to order

Physical Chemistry Using Mathcad

TABLE OF CONTENTS (page 6 of 9)

CHAPTER 7 SOLUTIONS

CHAPTER 8 IONIC SOLUTIONS

Back to Product List

MathSoft

Click here to order

Physical Chemistry Using Mathcad

TABLE OF CONTENTS (page 7 of 9)

CHAPTER 9 TRANSPORT PROPERTIES

CHAPTER 10 CHEMICAL KINETICS

Back to Product List

MathSoft

Click here to order

TABLE OF CONTENTS (page 8 of 9)

Back to Product List

MathSoft

Click here to order

Physical Chemistry Using Mathcad

TABLE OF CONTENTS (page 9 of 9)

Back to Product List

MathSoft

Click here to order